


DT03 Rec'd PCT/PTO 22 NOV 2004

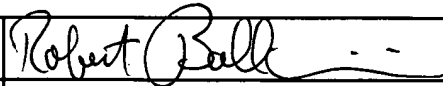
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<b>TRANSMITTAL FORM</b> NOV 22 2004 (to be used for all correspondence after initial filing) Total Number of Pages in This Submission	Application Number	10/507,434
	Filing Date	September 14, 2004
	First Named Inventor	Bjorn H. Lindqvist
	Art Unit	1653
	Examiner Name	Not Yet Known
	Attorney Docket Number	ZNA-PT007

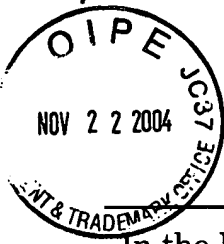
ENCLOSURES (Check all that apply)		
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<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Form PTO-1449; Copy of PCT International Search Report; and Copies of 19 References Cited Thereon
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	VOLPE AND KOENIG, P.C.	
Signature		
Printed name	Robert J. Ballarini	
Date	11/18/04	Reg. No. 48,684

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:		
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Typed or printed name	Robert J. Ballarini	Date 11/18/04

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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22 NOV 2004  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Björn Lindqvist

**Application No.:** 10/507,434

**Confirmation No.:** 6406

**Filed:** September 14, 2004

**For:** METHODS FOR PEPTIDE AND  
PROTEIN DISPLAY IN NUCLEIC ACID  
ARRAYS

**Group:** 1653

**Examiner:** Not Yet Known

**Our File:** ZNA-PT007

**Date:** November 18, 2004

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form.

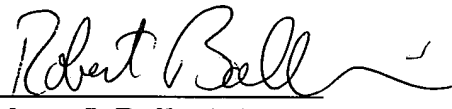
Pursuant to Pre-Official Gazette Notice signed July 11, 2003 waiving the requirements under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003, copies of the cited U.S. documents have not been included. Copies of all other cited references are enclosed.

Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned certifies that items AA, AC and AD contained in this Information Disclosure Statement were cited in an

International Search Report, copy enclosed, in a corresponding International Application.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

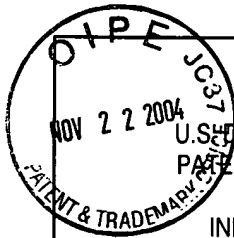
By   
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RJB/pp  
Enclosures (19)

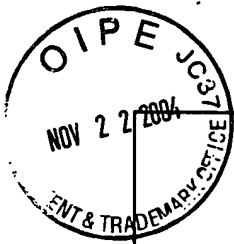
FORM PTO-1449				ATTY. DOCKET NO. ZNA-PT007		SERIAL NO. 10/507,434	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Bjørn Lindqvist			
				FILING DATE September 14, 2003		GROUP 1653	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AA	WO 9831700	07/1998	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AB	US 2002 0172968 A1 Nov. 21, 2002 Liu et al., "Biochips Comprising Nucleic Acid/Protein Conjugates"					
	AC	Smith GP, "Filamentous Fusion Phage: Novel Expression Vectors That Display Cloned Antigens on the Virion Surface", Volume 228, 1985, pages 1315-1317					
	AD	Ichiro Tabuchi et al., "An in vitro DNA virus for in vitro protein evolution", FEB Letters, Volume 508, 2001 pages 309-312					
	AE	Cahill, D. Protein arrays: a high-throughput solution for proteomics research? Proteomics: A Trends Guide. (2000) July, 47-51					
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449		ATTY. DOCKET NO. ZNA-PT007	SERIAL NO. 10/507,434
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Bjørn Lindqvist	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		FILING DATE September 14, 2003	GROUP 1653
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
AF	Chattoraj and Inman. Location of DNA Ends in P2, 186, P4 and Lambda Bacteriophage Heads. J. Mol. Biol. (1974) 87, 11-22.		
AG	Davis, R.W., Simon, M. and N. Davidson. Electron Microscope Heteroduplex Methods for Mapping Regions of Base Sequence Homology in Nucleic Acids. In: Methods in Enzymology, (1971) Vol. 21, Part D, 414-428.		
AH	DeWildt, R.M., Mundy, C.R., Gorick, B.D. and I.M. Tomlinson. Antibody arrays for high-throughput screening of antibody-antigen interactions. Nat. Biotechnology (2000) 18 989-994.		
AI	Dunn, I.S. Assembly of Functional Bacteriophage Lambda Virions Incorporating C-Terminal Peptide or Protein Fusions with the Major Tail Protein. J. Mol. Biol. (1995) 248, 497-506.		
AJ	Dunn, I.S. Total modification of the bacteriophage lambda tail tube major subunit protein with foreign peptides. Gene (1996) 183, 15-21.		
AK	Irving, R.A. and P. Hudson. Proteins emerge from disarray. Nat. Biotechnology (2000) 18, 932-933.		
AL	Lindqvist, B.H. and S. Naderi. Peptide presentation by bacteriophage P4. FEMS Microbiol. Rev. (1995) 17, 33-39.		
AM	MacBeath, G. and S.L. Schreiber. Printing Proteins as Microarrays for High-Throughput Function Determination. Science (2000) 289, 1760-1763.		
AN	Maruyama I.N., Maruyama H.I., and S. Brenner. Lambda foo: A Lambda phage vector for the expression of foreign proteins. Proc Natl Acad Sci USA (1994) Aug. 16; 91 (17): 8273-7.		
AO	Mikawa, Y.G., Maruyama I.N., and S. Brenner. Surface Display of Proteins on Bacteriophage Lambda Heads. J. Mol. Biol. (1996) 262, 21-30.		
AP	Mitchell, P. A perspective on protein microarrays. Nature Biotechnol. (2002) 20, 225-229.		
AQ	Roberts, R.W. and J.W. Szostak. RNA-peptide fusions for the <i>in vitro</i> selection of peptides and proteins. Proc Natl Acad Sci USA, 1997 Nov 11; 94(23): 12297-302.		
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		APPLICANT Bjørn Lindqvist	
		FILING DATE September 14, 2003	GROUP 1653
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AR	Sternberg, N. and R. H. Hoess. Display of peptides and proteins on the surface of bacteriophage Lambda. Proc. Nat. Acad. Sci (USA) (1995) 28, 1609-1613.	
	AS	Thomas, J.O. Chemical Linkage of the Tail to the Right-hand End of Bacteriophage Lambdo DNA. J. Mol. Biol. (1974) 87, 1-9.	

EXAMINER	DATE CONSIDERED
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